

FIG. 1

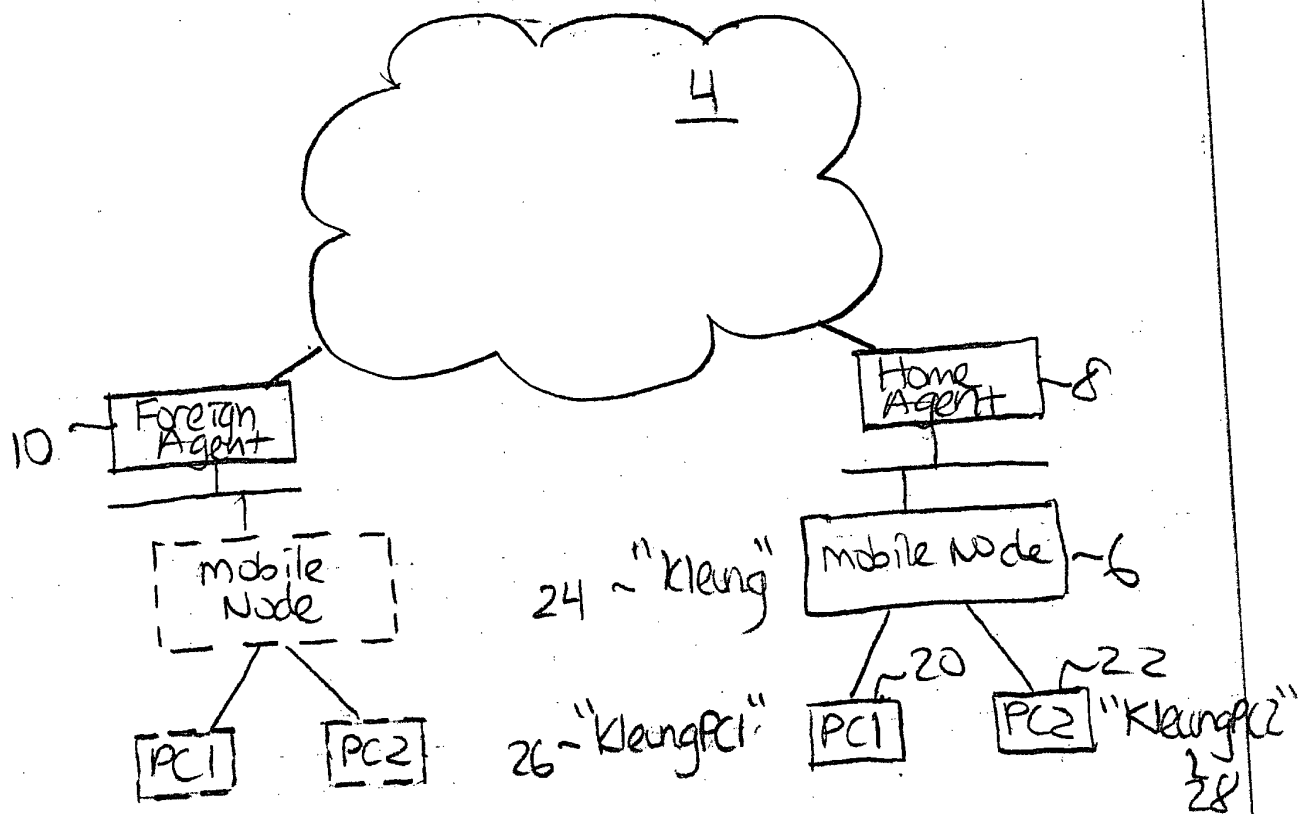


FIG. 2

mobile node composes  
and sends registration  
request with NAI and  
sub-NAI on behalf  
of new session ~302

FA receives and  
forwards registration  
request to HA ~304

HA performs authentication  
based upon NAI, composes  
registration reply with IP  
address for session and  
sends the registration reply  
to FA ~306

FA receives registration  
reply and forwards the  
registration reply to  
the mobile node so that  
it can map the IP  
address to the session ~308

FIG. 3

302

mobile node  
composes and  
sends registration  
request

mobile node detects  
start of session

~402

mobile node  
composes  
registration  
request

~404

mobile node appends  
NAI and sub-NAI  
extensions to  
registration request

~406

Send registration  
request to  
Home Agent

~408

FIG. 4

000000-10000000

304

Foreign Agent  
receives and  
forwards registration  
request

Foreign Agent receives  
registration request  
including NAT and  
sub-NAT extensions

502

Foreign Agent sends  
the registration request  
to Home Agent

504

FIG. 5

SECRET

Home Agent  
composes  
registration  
reply

306

Home Agent authenticates  
the registration request  
using the NAT

602

Determine whether the  
mobility binding table  
includes a binding between  
the NAT, sub-NAT and  
an IP address

604

Is  
binding in  
mobility  
binding table?

606

Get IP  
address from  
mobility binding  
table entry

608

Decide if HA  
needs to assign  
IP address to  
mobile node

610

Need  
IP address?

612

Get new  
IP address

614

Get IP  
address  
from  
Home  
Address  
field of  
registration  
request

616

HA update  
mobility  
binding table  
as req'd with  
binding between  
NAT, sub-NAT  
and the IP address

618

Compose  
registration  
reply including  
the IP address  
in Home  
Address field and  
including NAT  
and sub-NAT  
extensions

620

Send  
registration  
reply

622

FIG. 6

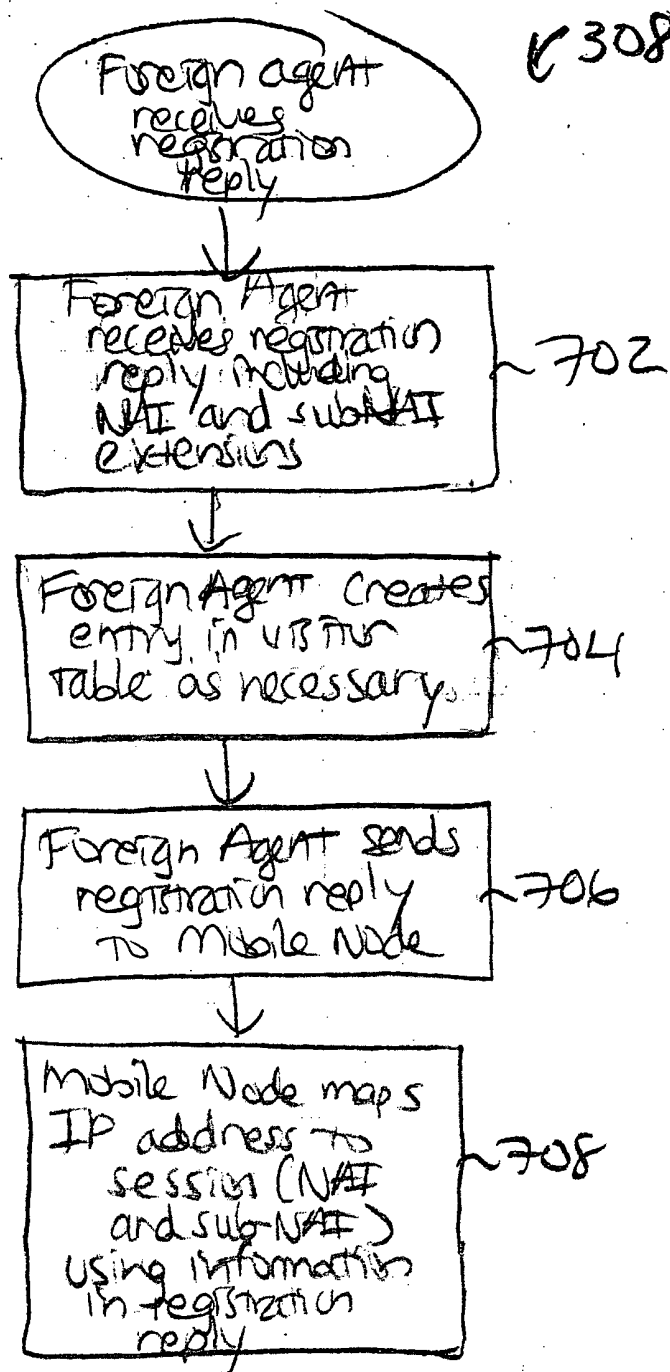
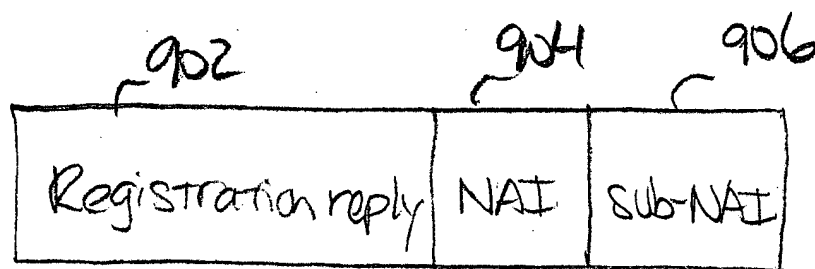
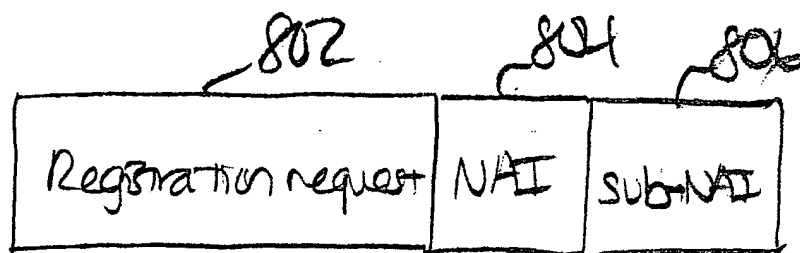


FIG. 7





# mobility Binding Table

~1002	~1004	~1006	
NAI	Sub-NAI	IP address	CoA

~1002	~1004	~1006	~1008	~1010
NAI	Sub-NAI	Session IP address	care-of address	Tunnel

FIG. 10

# Visitor Table

1102	1104	1106	1108	1110

1102	1104	1106	1108	1110
NAI	Sub-NAI	Session IP address	Home Agent IP add	Interface - Tunnel to HFA

FIG. 11

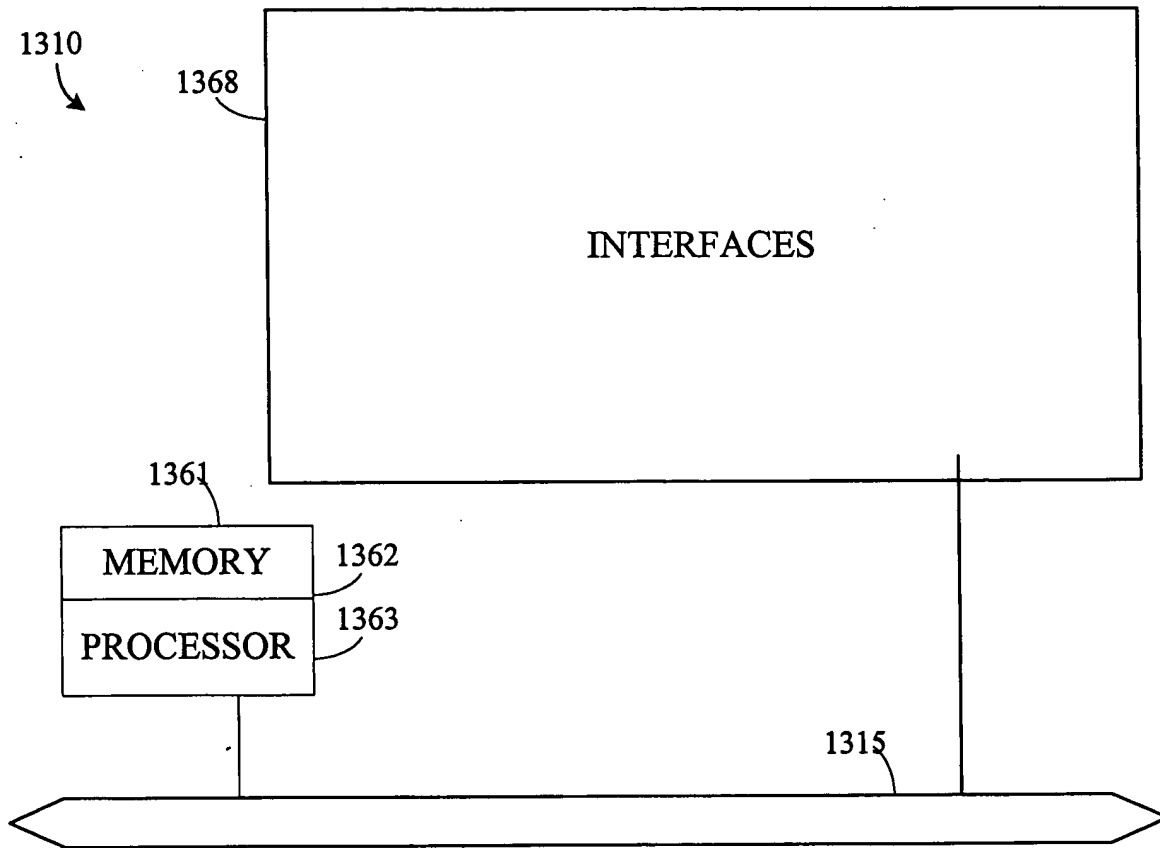


Figure 12